



ES-95
10/090,930

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:
Clough

Serial No.: 10/090,930

Filed: March 4, 2002

For: BATTERY ELEMENT
CONTAINING EFFICIENCY
IMPROVING ADDITIVES

GROUP ART UNIT: 1745

Examiner: Weiner, Laura S
(Prior Application)

PRELIMINARY AMENDMENT

To: Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

IN THE CLAIMS

Please amend Claims 1 to 32 as follows:

Claim 1 (Once Amended) A fiber mat separator useful as an electrolyte reservoir in a lead acid battery wherein the fiber mat separator comprises an acid resistant metal impurity inhibiting amount of micronized porous organic polymer particles having a 50 percent number count less than about 2 microns and functional groups on the internal surfaces of the micronized porous organic polymer particles which have a preferential affinity over lead ion for at least one electrolyte soluble metal cation impurity ion more nobler than lead at the discharge charge electrochemical and sulfuric acid molarity conditions of the battery provided that the metal cation impurity ion is not detrimentally

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